



3rd Space and Missile Defense Conference Aug. 21-24... **See story, page 7**

The Eagle

Vol. 7, No. 6

Published in the interest of the U.S. Army Space and Missile Defense Command

July/August 2000

New leadership in key SMDC positions

Secretary of Defense announces SMDC's next commander

Secretary of Defense William S. Cohen announced that the President has nominated Maj. Gen. Joseph M. Cosumano, Jr., for appointment to the grade of lieutenant general with assignment as commanding general, U.S. Army Space and Missile Defense Command, Arlington, Va.

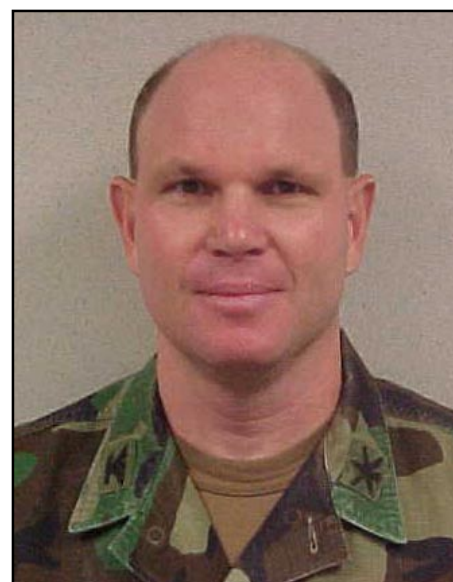
Cosumano is currently serving as the Assistant Deputy Chief of Staff for Operations and Plans for Force Development, U.S. Army, Washington, D.C. In his new position, Cosumano will be the Army's proponent for Space and National Missile Defense, as well as the overarching integrator for Theater



MG Joseph Cosumano



BG John M. Urias



COL Richard V. Geraci

General/Assistant Commandant, U.S. Army Air Defense Artillery School, Fort Bliss, Texas.

He earned a master's and bachelor's degree in Industrial Technology from Northwestern

State College of Louisiana. He is a graduate of the Industrial College of the Armed Forces, the Program Management Course at the Defense Systems Management College, the Air Command and Staff College, and the Air Defense Artillery Officer Basic and Advanced Courses.

Cosumano's military awards include (See SMDC's new leader, page 2)

BATTLE LAB LEADS THE WAY INTO ... THE NEXT MILLENNIUM

**John Buckley
Huntsville, Ala.**

The U.S. Army Space and Missile Defense Battle Lab (SMDBL) has had a successful history supporting the warfighter. The latest example of this is the 32nd Army Air and Missile Defense Command's (AAMDC) Future Operational Capability (FOC) program. The program began in early 1999 with guidance and requirements from the commanding generals of the SMDC, U.S. Army Air Defense Artillery School, and the 32nd AAMDC. In general terms the battle lab would provide new technologies that will lead to the required command and control capabilities for the successful conduct of Joint Theater Air and Missile Defense by the 32nd AAMDC.

The SMDBL developed the baseline FOC through close coordination with the 32nd AAMDC staff, TRADOC Systems Manager, Directorate of Combat Developments (Fort Bliss), and the Air and Missile Defense Command and Control Systems (AMDCS) office. The FOC was exercised for the first time in a "live" environment during Roving Sands '00 at Fort Bliss, Texas June 6-24. SMDBL personnel trained 32nd AAMDC soldiers

Missile Defense. In addition, he will also serve as the commanding general, Army Space Command, the Army component command to the U.S. Space Command.

Cosumano has been in his current position at the Pentagon since August 1998. Before that assignment he was the National Missile De-

fense Joint Program Manager, Ballistic Missile Defense Organization, Arlington, Va. Other assignments include: Director, Strategic Synchronization Cell, Office of the Chief of Staff, United States Army, Washington, D.C.; Director of Plans, J-5, U.S. Space Command, Peterson Air Force Base, Colo.; Deputy Commanding



Photo by John Buckley

Both active duty and national guard soldiers from the 32nd AAMDC put the FOC to the test at Roving Sands '00.

both in Huntsville at the Advanced Research Center and at Fort Bliss. The trained soldiers then manned the FOC to provide valuable feedback for an independent assessment. This assessment will be used, along with other collected data and observations, to provide the future vision for the FOC program.

The baseline FOC at Roving Sands demonstrated that current in-theater footprints can be reduced by about 70 percent. The advanced Warfare Environment windows based software successfully performed functionalities that before were reserved for UNIX based system. Advanced visualization techniques both in two and three dimensional environments assist in situational awareness. Communications capabilities have the potential to be enhanced through miniaturization and new techniques in wireless networks.

The FOC was developed through an integrated government and industry product team. The SMDBL integrated proven products from other service battle labs such as the U.S. Marine Corps warfighting center Multi-Source Correlator Tracker, and products and

services from 19 different contractors to make the FOC a success. The 32nd's FOC is truly an experiment in advanced methodologies and techniques that will continue providing unique and innovative C4I capabilities to the modern warfighter.

National Missile Defense testing and development needs America's support

Team work at all levels in space and missile defense is key to success



LTG John Costello
Commanding General

It's a great time to be in the space and missile defense business. In fact, it's a great time to be alive in this new millennium with all the modern advantages and countless riches it has to offer to all of us. Our most valuable assets are the freedoms we enjoy as Americans. Our Army, with its 225 years of dedicated service to our Nation, has helped gain and keep our freedoms alive and well. One of our greatest freedoms is security against a rogue nation's threat or use of ballistic missiles. Defense and industry are working hard to mature the technologies needed to provide the United States security against ballistic missiles. Our soldiers and fellow citizens deserve no less.

The recent National Missile Defense Integrated Flight Test 5 was a disappointment. But the intercept failure didn't occur in the most sophisticated elements of the system and was not associated with hit-to-kill technology. The test failed because two rocket stages didn't separate. As Defense Secretary Cohen said, "That's something that's not fatal to the program, so I would reserve the judgment (to recommend deployment) until I get all the way through the analysis."

We in SMDC can feel an extra measure of pride in helping to test and develop a national missile defense shield.

briefing at the Pentagon to the news media.

Many of our citizens believe that we have a defense against ballistic missiles. The fact remains, we do not!!! Other critics will address the high costs of NMD testing and of the "perceived" ballistic missile threat from rogue nations. But what price would a typical U.S. citizen be willing to pay in the event of a ballistic missile attack against any city or town in our great nation?

In the weeks ahead, the Secretary of Defense will make his DRR (deployment readiness review) recommendation to the President, and the President will then make his decision. If the program were to be given the green light, it could be operational in fiscal year 2005.

We in SMDC can feel an extra measure of pride in this accomplishment, because the command, together with the Ballistic Missile Defense Organization and the Program Executive Office for Air and Missile Defense, has contributed much to this success and garnered our place in history.

We can be proud of our history of excellence and share in the greatness of our country's history.

In the words of our Commander-in-Chief: "On the 4th of July, we celebrated 224 years of independence. George Washington knew the survival of our country depended on our ability to defend it. More than two centuries later, America continues to rely on the bravery of the men and women of the United States Armed Forces. Today, our men and women in uniform stand guard on the frontiers of freedom, ready to mobilize in a minute to defend the interests and ideals of America.

"As we commemorate the start of the world's most successful experiment in self-government, we must recognize our success is inseparable from the bravery and service of those in uniform."

SMDC's new leaders

(continued from page 1)

clude the Defense Distinguished Service Medal, Defense Superior Service Medal, Legion of Merit with two oak leaf clusters, Meritorious Service Medal with three oak leaf clusters, Parachutist Badge, Army Aviator Badge, Office of the Secretary of Defense Identification Badge, Joint Chiefs of Staff Identification Badge, and Army Staff Identification Badge.

Lt. Gen. John Costello, commanding general of SMDC, said he anticipates a change of command ceremony some time in mid-October and that he will retire from active duty at that time. He also mentioned he has known Maj. Gen. Cosumano his entire Army career.

New Deputy CG in Huntsville

The Chief of Staff of the Army announced the assignment of Brig Gen John M. Urias, currently Program Executive Officer for Air and Missile Defense (PEO-AMD) in Huntsville, Ala., to Deputy Commanding General, U.S. Army Space and Missile Defense Command (SMDC), Huntsville, Ala., with a report date mid-August.

In his new position, Urias will share responsibility for SMDC's role as the Army's proponent for Space and National Missile Defense, and the Army's over-all integrator for Theater Missile Defense.

Urias assumed duties as the PEO-AMD in September 1999. Before that assignment, he served as the Deputy for Life Cycle Management, U.S. Army Tank-Automotive & Armaments Command in Warren, Mich. He has held a variety of command and staff assignments. Key among them are: Project Manager, Warfighter Information Network - Terrestrial, where he was responsible for modernizing and ultimately replacing the Army's \$7.5 billion terrestrial communications infrastructure from fox-hole to theater level.

His Acquisition Corps assignments include Research and Development Coordinator, U.S. Army Missile and Space Intelligence Center, Redstone Arsenal, Ala.; Executive Assistant to the Scientific and Technical Advisor to the Commander-in-Chief, U.S. Pacific Command (USCINCPAC); Chief, Research and Development Branch, Strategic Planning and Policy Directorate, USCINCPAC; Assistant Project Manager for Command, Control, Communications and Intelligence, Army Tactical Missile Sys-

tem Project Office; and Assistant Project Manager for Army Airspace Command and Control, Air Defense Command and Control Systems Project Office.

Urias graduated as a Distinguished Military Graduate from the University of California, Davis, and was commissioned a second lieutenant in Air Defense Artillery in March 1975. He earned a master of science degree in electrical engineering from the Naval Postgraduate School and a master of arts degree in national security and strategic studies from the Naval War College. He is a graduate of the Air War College, Defense Systems Management College, College of Naval Command and Staff, and the Air Defense Artillery Officer Basic and Advanced Courses.

His military awards include the Legion of Merit with oak leaf cluster, Defense Meritorious Service Medal, the Meritorious Service Medal with silver leaf cluster, and the Army Commendation Medal. He also wears the Air Assault Badge.

"It's not every day that you're sent just across the street for a new job that's so closely connected to yours," Urias said. "I'm certainly looking forward to becoming part of the SMDC family, even though it will be hard to give up my great family here at the Program Executive Office. Since distance is not a problem in this case, we'll always stay in touch," he continued.

New Deputy CG in Colorado Springs

Headquarters, Department of the Army, has announced the assignment of Col. Richard V. Geraci to SMDC as the Deputy Commanding General, Army Space, and Deputy Commanding General for Operations, Army Space and Missile Defense Command, with duty station in Colorado Springs, Colo. Geraci is currently the Deputy Director, J-9, Joint Warfighting Experimentation Battle Lab, U.S. Joint Forces Command, Norfolk, Va. Geraci arrived at the U.S. Joint Forces Command in August 1998, serving as Chief of the Experimentation Operations Division until assuming his current position in June 1999. His key command assignments include the 31st Air Defense Artillery Brigade, III Corps, Fort Bliss, Texas, from 1996 to

Job well done

Pam Pollard, wife of Col. Robert C. Pollard, Jr., receives a Certificate of Appreciation from LTG John Costello, commanding general of SMDC, for her contributions to the Army. The certificate was presented during the recent retirement ceremony of her husband.



Photo by Steve Gover

1998; the 6th Battalion, 43rd ADA (PATRIOT), V Corps, U.S. Army Europe and Seventh Army, Germany and Saudi Arabia, from 1993 to 1995.

Other command assignments include D Battery, 3rd ADA Training Battalion, 1st ADA Training Brigade, Fort Bliss, Texas, and Headquarters and Headquarters Battery, 4th Battalion, 3d ADA (PATRIOT), The School Brigade, also at Fort Bliss.

He is a graduate of the New Mexico Military Institute where he received his commission. Geraci holds a bachelor of science degree in management from Park College, a master of arts degree in management from Webster University, a master of science degree in systems management from Florida Institute of Technology, and a master of arts degree in national security affairs and strategic studies from the United States Naval War College. His military education includes the U.S. Army Combined Arms and Services Staff School, the U.S. Army Command and General Staff Officer Course, and the U.S. Naval War College.

Geraci's awards include: The Defense Superior Service Medal, Legion of Merit, Meritorious Service Medal (with seven oak leaf clusters), the Army Commendation Medal (two oak leaf clusters), Army Achievement Medal (one oak leaf cluster), Southwest Asia Service Medal, Saudi-Kuwaiti Liberation Medal, and the Kuwaiti Liberation Medal. He has also been awarded the Air Assault Badge and the German Armed Forces Rocket and Air Flight Personnel Professional Qualification Badge (gold).

Geraci said, "I will not only be the deputy commanding general for Space, but also the deputy commanding general for operations for all of SMDC. This new position is a commitment by the Department of the Army that space and space products are important to the Army and to the ongoing Army Transformation efforts. I'm looking forward to my new assignment."

The Eagle ...

is an unofficial publication authorized under the provisions of Army Regulation 360-81. It is published by the U.S. Army Space and Missile Defense Command. Views and opinions expressed are not necessarily those of SMDC, Department of Army, or Department of Defense. Reader input is solicited and welcomed; however, no payment will be made for such contributions. Please direct letters and comments to:

U.S. Army Space and Missile Defense Command
ATTN: Editor, **The Eagle**, P.O. Box 1500,
Huntsville, AL 35807-3801
Phone (256)955-1641 or DSN 645-1641
FAX: DSN 645-1214

Commander.....Lt. Gen. John Costello
Chief, Public AffairsWilliam M. Congo
Editorial Assistant.....Sybil Baker

Major contributors:

ARSPACE, Colorado Springs, Colo.
SMDC Staff, Huntsville, Ala.

Curry keeps watch over wreck buoys

“ When you are down at 80 feet cruising on the scooter -- with visibility at 50 to 70 feet -- you get a feeling... ”

Story and photos by Peter Rejcek
Kwajalein Hourglass

The dive gear and scuba tanks are loaded, and the B-boat is speeding toward its destination, the site of one of the many wrecks lying at the bottom of Kwajalein Lagoon.

The vessel is a familiar one, the *Asakaze Maru*, a 425-foot-long coal freighter, or collier, better known as K-5 Upright, located just southwest of the green K-5 buoy. It lies upright, as the local name implies, in about 150 feet of water. The deck, which looks as though a giant had played hopscotch on it, is located at a more approachable 100 feet. Clouds, some promising at least a light drizzle, break the monotony of the blue sky. White-capped waves slap the boat up and down like a seesaw as it slows and approaches the cone-shaped K-5 buoy. But the small, round buoy marking the wreck itself is nowhere in sight. The elements and repeated use by dive boats as a surface anchor have sawed it away. It could be in Bali by now.

Enter Doug Curry, an employee in road and ground maintenance and member of the Kwajalein Scuba Club, who has assumed stewardship of the

various buoys that mark wrecks in the lagoon.

“When you are down at 80 feet cruising on the scooter — with visibility around 50 to 70 feet — you get a *feeling*. A moment later the ship just appears as a dark shape. At that moment, it is one of the greatest sensations.

“Then the ship comes into full view and the moment is gone,” said Curry, explaining why he donates his time checking, repairing, and even replacing the various buoys. It’s a duty that fell to him as other buoy tenders he would dive with PCS’d, Curry explained.

“It’s something to do, if you can find the right people to do it with,” he said. “I always try to check [buoys] on a dive.”

The procedure to replace the K-5 Upright buoy is deceptively simple: Curry and at least one other diver — in this instance, Larry Hayden — are dropped off at a point near where the ship is believed to be resting. The two quickly submerge and locate the vessel, as well as the stainless steel cable attached to the ship that leads up to a subsurface buoy suspended about 15 feet underwater.

Hayden attaches an anchor line from the boat to the subsurface buoy, while



(top) Doug Curry secures the carabiner of a surface buoy that marks the location of K-5 Upright, a WWII wreck. (below) Kevin Barnes looks on while Doug Curry prepares equipment at the Small Boat Marina that will be used as a surface marker for the location of a WWII wreck.



Curry returns to the surface on his underwater scooter. As waves push him around like a cork, someone on the boat throws out a bright, shiny, yellow buoy with a new line to attach to the subsurface buoy.

Moments later, Curry returns and gives the thumbs up sign. It’s done — and in less than 15 minutes.

“It’s a different kind of diving,” noted Hayden, who has assisted in this type of operation before.

Curry said the biggest obstacle to maintaining the buoys is time, and finding the right equipment. Buoys are usually donated by residents who find them washed up on shore. The lines

used to attach the subsurface and surface buoys are braided by Ivy Springer. Finding a ready supply of carabiners or shackles to secure the buoys and ropes can be difficult.

“You don’t always get the equipment you want,” said Curry, who was first scuba-certified in Sicily in 1989 and has logged over 500 dives here.

Next on Curry’s checklist is to replace a missing surface buoy on P-North, the *Ikutu Maru*, a 303-foot cargo vessel. Tag lines to Barracuda Junction (*Tyoko Maru*) and P-Buoy (*Akibasan Maru*) wrecks also need replacing.

“I’ve got a lot of work to do,” Curry said.

Contract valued at close to \$4 billion

THAAD prepares for engineering, manufacturing & development phase

The U.S. Army Space and Missile Defense Command’s (SMDC’s) Contracting and Acquisition Management Office awarded the engineering and manufacturing development (EMD) contract for the Theater High Altitude Area Defense, or THAAD, missile defense system to Lockheed Martin Space Systems Company, Missiles and Space Operations, in Sunnyvale, Calif., on June 28, 2000.

The contract is valued at almost \$4 billion - \$3,966,948,706 – for a period of 98 months. The actual starting date for the contract to go into effect is Aug. 4.

During the EMD program, the system design will

evolve to satisfy the Army’s key operational requirements while developing weapon system components that are not only effective, but are affordable, ready for production, and available to the U.S. Army soldiers for a first unit equipped (FUE) in fiscal year 2007.

The weapon system components consist of hit-to-kill missiles, highly accurate radars, sophisticated battle managers, and launchers. The components will be designed to survive in a battlefield environment, manufactured on initial production lines, and then verified operationally suitable and effective in comprehensive ground and flight testing.

The effort also includes designing and developing a logistics infrastructure for fielding and maintaining of the THAAD weapon system and its peculiar support equipment for the



service life. Sufficient production-representative weapon system components will be built to support all testing to include initial operational test and evaluation and verify the THAAD readiness for low rate initial production and full rate production. The management of this contract is vested in the U.S. Army THAAD Project Office in Huntsville, Ala., and their reporting chain including the Program Executive Office, Air and Missile Defense, and the Ballistic Missile Defense Organization. SMDC administers the contract.

“A lot of hard work went into this contracting effort,” said Mark Lumer, SMDC’s contracting executive. “Both sides were involved in some serious negotiations and are quite proud of this accomplishment, which will bring our nation’s theater missile defense one big step closer to fruition.”



An athlete lights the Olympic Flame with assistance from his buddy to open



Special

Huntsville, Ala. &



Athletes are “running” to win in track.



the athletes, buddies and teachers from the Kaiserslautern School in Germany march in the Parade of Athletes.

“Let me w
cannot w
brave in
- Special



(left) Steve Hammonds and Olympian return to the stands after victory in the wheelchair event.



(left) Andrew Johnson oversees the softball throwing event every year.

(right) LaJeannia Lacey and Angela McLain join their Olympian and her teacher in celebrating her 1st place win in the wheelchair race event.



Olympics

Colorado Springs, Colo.



Soccer was an event that “scored high” with the competitive olympians.

win. But if I
win, let me be
the attempt.”
Olympics



(above) Dave Vale and LaJeannia Lacey escort Academy of Academics & Arts Olympian to the wheelchair event.



(below) Lucille Reeves and Special Olympian boast her best effort in the 50 meter



Phil Patterson chats with a veteran Special Olympian.



Competition was the name of the game and this olympian has his eye on the basket.

then Now

Story and photo by
Gary L. Martin

26 Area Support Group PAO Heidelberg, Germany

Bill Sanders left SMDC in Huntsville about three years ago to become deputy director of public works for the 26th Area Support Group (ASG) in Heidelberg, Germany. Earlier this year, he was named co-winner of the Army's prestigious William C. Gribble Jr., DPW Executive of the Year Award for 1999. The other person to share the award is Robert Smith, at Training and Doctrine Command.

Although the honor is largely based on his accomplishments in Germany, Sanders attributes much of the success to the nearly nine years he spent with SMDC.

"When I worked there it was called Army Space and Strategic Defense Command, and one of the most valuable things I learned was how to successfully prepare 1391s, which are necessary to get Department of the Army approval for construction projects," said Sanders. "They aren't as straight forward as one might think.

"I also got to know some people in the DA and what they're looking for in the application process. I also got more experience working on some big projects."

For example, he points to \$60 million worth of projects for Kwajalein which included two power plants and a barracks complex. He also was involved with obtaining approval for the construction of a \$49 million dollar power plant, which is still under way in Roi-Namur..

"I really enjoyed that work," he said. "I also got to do a lot of traveling and met a lot of people. Yeah—my time with SMDC helped prepare me for this job."

Since coming to Germany in 1997, Sanders has had many accomplishments. His responsibilities include providing personnel, logistical and engineering support to U.S. Army Europe (USAREUR), Seventh Army and the four base support battalions within the 26th Area Support Group (ASG).

One of Sanders' primary challenges is obtaining the funding for DPW's major and minor construction projects in support of the 26th ASG and its four base support battalions, with a population, of 63,000 people and 6,400 family housing units.

His combined budget for direct and reimbursable expenses exceeded \$129 million for 1999, which—through his diligent efforts—grew by some 16 percent



Former SMDC employee, Bill Sanders, was named co-winner of the Army's prestigious William C. Gribble Jr., DPW Executive of the Year Award for 1999.

over the previous year.

Another major accomplishment was obtaining USAREUR's approval for a combined \$50 million in major and minor construction projects.

Lt. Col. James Duttweiler, director of DPW, attributes Sanders' success to aggressive and innovative leadership and management styles.

"He steals...he steals money," Duttweiler said with a chuckle, as he shrugged his shoulder and shook his head in disbelief. "I just don't know how he does it, but Bill gets money like no one else can. He's done a great job and really deserves the award."

Sanders says working for DPW is one of the best jobs in the Army—when

there are funds for projects. He also admits that there is nothing more frustrating than not having enough money because there is so much a facility engineer/housing manager needs and can do to increase the quality of life for his people and maintain troop readiness.

The GM-13 deputy director hates to tell people no, so he learned the finer points of acquiring funds.

"It's just a matter of not giving up and wearing them down," Sanders said. "Part of my job is making USAREUR say yes. I ask and ask and ask (for money). They say no, no, no and sometimes yes; eventually they have to.

"Saying 'yes' is a heck-of-a-lot easier than saying 'no' to my customers, so I do everything I can to get funding."

Master planning or making DPW's long-term game plan is another important role that consumes much of Sanders' time and requires close coordination with the base support battalions. Part of that process, for example, is to identify and justify old, un-used, buildings to be torn down or refurbished and where new construction needs to take place.

It also is involved with the future of Army assets like re-stationing units coming to or leaving the ASG, or giving up excess or obsolete housing.

The release of 340 housing units, no longer needed by the 26th ASG, will save more than \$3 million a year, plus another \$25 million in renovation costs because the housing was so badly in need of repair.

Now more money will be funneled into other housing improvement projects, resulting in a better quality of life for those soldiers and their families.

Sanders has more than 20 years of DPW experience, nine of them in Germany, which includes assignments in Stuttgart, Schweinfurt and Karlsruhe. After completing his current tour of duty, Sanders said that he wants to go back to SMDC.

The 49-year-old executive was born and raised in Bono, Ark., and went to the University of Arkansas, in Fayetteville, to earn a bachelor's degree in civil engineering. He then entered the Army in 1974 to serve four years on active duty with the 249th Construction Battalion in Karlsruhe.

Sanders and his wife Uli have been married for 18 years; they live in Heidelberg with their 16-year-old daughter, Julia, who is a sophomore at Heidelberg High School.

Although Sanders is proud of his award and accomplishments, he is not the kind of man to dwell on past achievements. After briefly savoring the honor, he was ready to move on. In describing his feelings, Sanders paused a second then said, "The award is nice...really nice. But, I've got a couple of units out there that really need some hard stand (parking for military vehicles). "If anyone in USAREUR wants my award, I'll sell it for a million dollars for those projects...In fact! I'll sell it for a half million," he said, sealing the offer with a nod.

(Gary Martin is a former photographer with SMDC's Public Affairs Office.)

"E-Spies"

*Have you gotten an unsolicited, job-related message lately?
Do you know you have to report it?*

Have you gotten an unsolicited, job-related message lately? Do you know you have to report it?

Recently command members received unsolicited, work-related email messages, some from America, others from overseas. Sometimes these are offers for business, offers for ideas, or any

number of a host of other reasons. These are what we call unsolicited correspondence. Most of these are just what they seem. Someone, by reading our web page for example, contacts you and asks about work. Someone who finds your name writes to see if you can review his idea. When a message like this arrives, we usually first ask ourselves how he

got our name. What to do?

Report it to your security office immediately. We want to be sure that letters from afar are handled properly. If legitimate, the proper method of entry into the command is through the Public Affairs Office. If not, then Intelligence needs to be made aware of the contact.

SMDC team effort nets invention award

Segmented Electron Beam Dump System patent may apply to future Command technological efforts

Steve Gover
Huntsville, Ala.

A major hurdle in obtaining a patent on an invention was recently cleared by three SMDC team members with the filing of a patent application for the Segmented Electron Beam Dump System for use with High Current Negative Ion Sources.

An Initial Invention Award was given to Terry Bauer of the Advanced Technology Directorate and James B. Gardner of the PAC-3 Missile Product Office. Thomas G. Roberts of Technoco, a Huntsville-based contractor, was also one of the inventors.

Initially, the system was created for use in the Directed

Energy Weapons Program. According to Bauer, "the neutral particle beam creates a lot of negative ions



left to right: Terry Bauer, Advanced Technology, Jess Granone, Director, Space and Missile Defense Technical Center, and James G. Gardner of the PAC-3 Missile Product Office celebrate receipt of initial invention award.

and electrons. This is an improved way to get rid of electrons, dissipate heat and keep the electrical

tion filed by the SMDC using other resources," said Popescu.

charge down on the space vehicle. Hopefully, one day we can use it on other systems," said Bauer.

According to John Popescu, of the SMDC Legal Office, "the patent process can take up to two years to complete.

"When submitted, the Patent Office has a series of questions and the government patent attorney responds to the questions with respect to the invention," said Popescu. "The filing of the application is also a milestone for SMDC. In the past, patent applications were processed through the Intellectual Property Law Section of the U.S. Army Aviation/Missile Command Legal Office.

"As a result of downsizing several years ago that office is no longer able to support SMDC. This effort marks the first patent applica-

SMDC realigns, streamlines technical center operations

Effective June 1, 2000, the command's Space and Missile Defense Technical Center (SMDTC) was realigned to establish the Space and Missile Defense Center for Technology Development (CTD) and the Joint Center for Technology Integration (JCTI).

The mission of the CTD will be to plan, develop, coordinate, and execute the Army portion of the Ballistic Missile Defense Organization (BMDO) technology program as well as the Army Space and Missile Defense Command technology programs such as Directed Energy weapon development and space technology development in the use of space information.

This is based on a memorandum from BMDO Director Lt. Gen. Ronald Kadish in which he appointed SMDC as the executive agent for ballistic missile defense science and technology.

To accomplish this function, SMDTC Director Jess Granone appointed Dr. Michael Lavan (formerly director of the Tech Center's Advanced Technology Directorate) as the Director of the Center for Technology Development.

He will be responsible for coordinating technology development efforts within the command, with the Program Executive Office for Air and Missile Defense, BMDO technol-

ogy planning team, and the BMDO executing agent. Also effective June 1, all CTD directorates within SMDTC will report to Lavan.

The mission of the JCTI will be to perform the functions as the BMDO Executive Agent for BMD science and technology programs. The JCTI mission is to administer the BMDO technology program for the Army, Navy and the Air Force through planning and financial and technical monitoring.

This is in response to the responsibilities of the executing agent as established in the BMDO Director's memorandum dated March 22, 2000. Michael Cantrell (formerly the Tech Center's High Endoatmospheric Interceptor Division chief) is the director of the Joint Center for Technology Integration.

"This realignment became necessary because of the increased mission and responsibilities given to SMDC by BMDO" said Granone.

"It will further empower the Joint Technology Board, on which the Tech Center is a participant, and streamline the execution of programs through a single service Program Management Agreement (PMA) for technology instead of the multiple PMAs and subtasks we had before."

3rd Annual Space & Missile Defense Conference to be hosted at Von Braun Center in Huntsville Aug. 21-24, 2000

The Army Space and Missile Defense Command, the Army Space and Missile Defense Association, National Defense Industrial Association-Tennessee Valley Chapter, and the Air Defense Artillery Association-Huntsville Chapter are sponsoring this year's Space and Missile Defense Conference and Exhibition at the Von Braun Center in Huntsville, Ala., Aug. 21-24. The common theme is "Missile Defense Capabilities Beyond 2010."

The purpose of this combined conference is to continue the exchange of thoughts and ideas between government and industry researchers, developers, and users to ensure that future space and missile defense systems are feasible, affordable, and effective against the evolving threat.

The conference presents an update on the requirements generation process and a status of present development programs. This is followed by an opportunity for technologists to

present innovative ideas, concepts, and research activities supporting theater and national missile defense and space operations.

Registration before July 24 is \$250 for government representatives (\$450 for industry) and \$300 after that (\$500 for industry).

The conference golf tournament begins at 11 a.m., on Monday, Aug. 21, at the Hampton Cove Golf Course with a scramble format. The tournament is followed by a "Southern Cook-out."

For more information, contact Terrell Downs at (256) 885-7073 or downst@nichols.com.

The latest conference information can be found at: <http://www.ndia-tvc.org> For additional information, please contact: Registration/Conference Coordinator Jodi Weiner at (256) 533-5923 or jweiner@aol.com; Program Chairman Steve Humphrey at (256) 830-9200 or steven.humphrey@lmco.com; Exhibit Chairman Bob Wilkie at (256) 922-9229 or bob.wilkie@tdsi.com.



Hail & Farewell ...

Welcome to... BG John P. Urias, COL Kevin Ryan, LTC (P) Rick Dorsey, Rhonda Paige, COL Edwin P. Janasky, COL Curtis Lee Wrenn, Jr., COL Jeffrey C. Horne, LTC (P) Mike Lavalley, LTC (P) David Ifflander, LTC (P) Peter T. Hayward, COL Steven Lundberg, LTC Lyn Tronti, CPT Robert Magnuson, COL Rick Geraci

Farewell to... LuAnne Fantasia, MAJ Russell A. Hinds, LTC Michelle Stoleson, CPT Greg Sharp, COL Edward W. France.

Awards ...

COL Ronald Ouellette, Meritorious Service Medal (MSM), CPT Derrick Hayes (MSM), LTC Michelle Stoleson, (MSM), MAJ Russell Hinds, (MSM), LTC Erbin Troutman, Legion of Merit (LOM), LTC James Matthewson, (LOM), LTC Thomas R. Shanahan, (LOM).

Promotions ...

COL Jeffrey C. Horne (from LTC), Karl Rinas

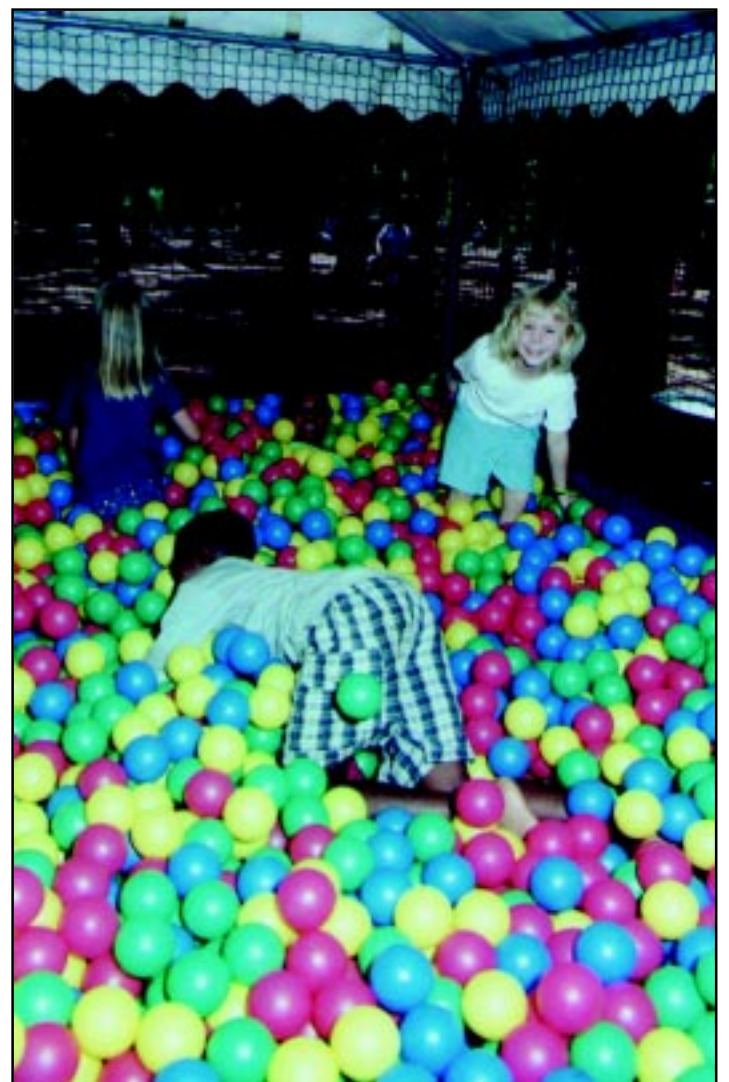
Retirement ...

LTC James D. Matthewson, Jr., MAJ Mary Hinkson, LTC Erbin Troutman, Dewey Wilson, LTC Thomas R. Shanahan, COL Robert Pollard, Tom Smith



Take a Command picnic and add fun in the sun and you will get---

Faces of Delight



Photos reflect family and friends at the annual Command picnic conducted in Huntsville, Ala., June 23, 2000.

Photos by Steve Gover

